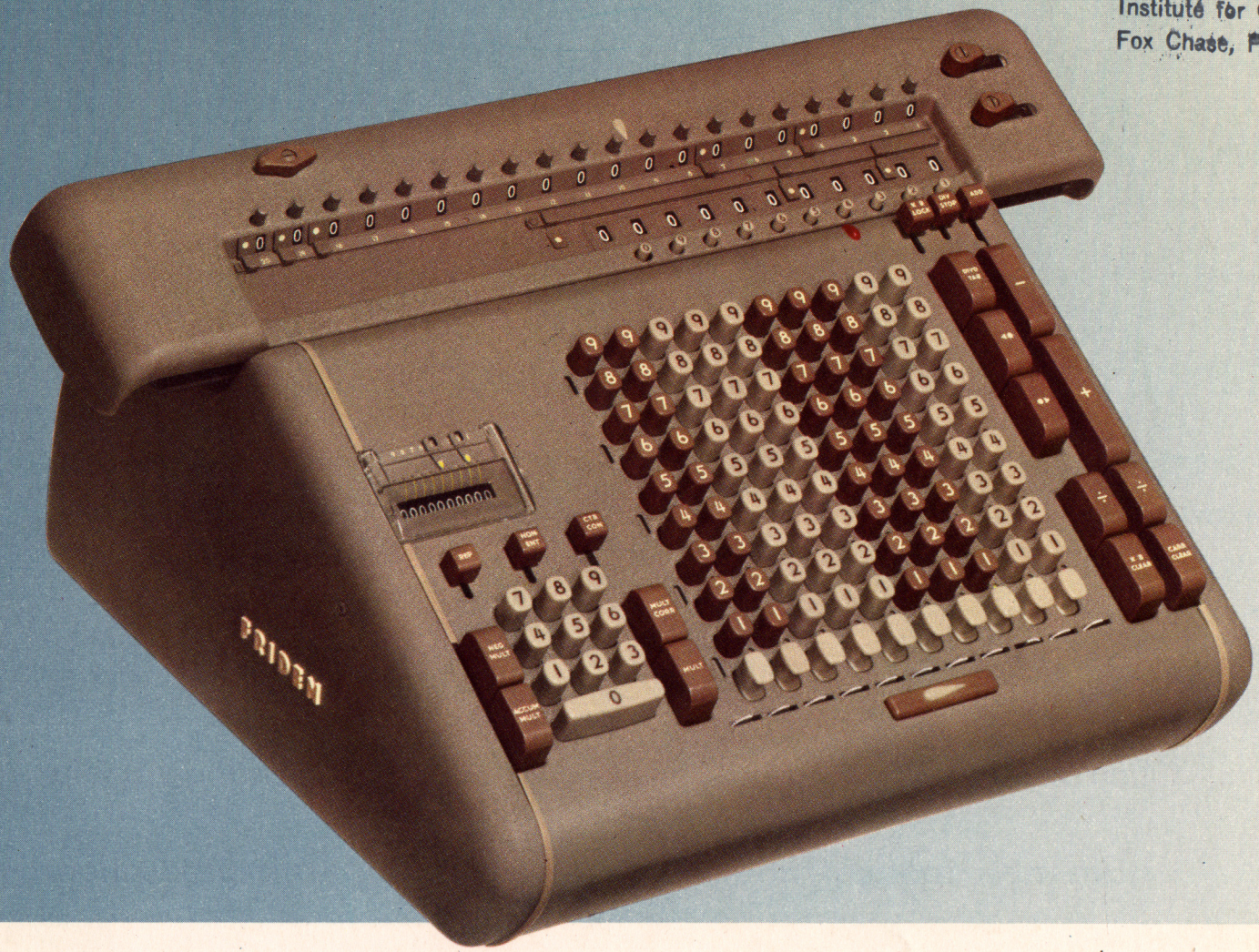
Physics Department
Institute for Cancer Research
Fox Chase, Philadelphia 11, Pa.



The NEW FRIDEN *fully automatic calculator*

The NEW *ultra-matic* FRIDEN *has everything...*

FULLY AUTOMATIC

in all calculation

DESIGNED FOR THOSE RESPONSIBLE FOR PRODUCING OR CHECKING FIGURES

. . . this New Fully Automatic Calculator provides a speed in obtaining answers, and an ease of operation never before experienced by users of calculating machines. See this amazing Calculator...Try it on your own work...Learn first hand how its many new features can increase your figure-work production.

completely new **in DESIGN • APPEARANCE • PERFORMANCE**

SET BOTH FACTORS...TOUCH ONE KEY

The Dials clear...the Calculation starts...the Carriage shifts...the Keyboard clears...the proved answer appears...the operator enters the factors for the next calculation...touches a control key and copies the previous answer as the calculation is being made.

NO LOST MOTION

The FRIDEN automatically does the calculating. The operator merely copies answers and sets Factors. This is...

TRUE PRODUCTIVE HIGH SPEED

FRIDEN *features...* *the specification for* YOUR *new calculator*

★ **INSTANTANEOUS COMPLETELY AUTOMATIC MULTIPLICATION**
provides
Individual Products
Accumulated Products
Negative Products
★ **Grand Totals**
Accumulated Multipliers
★ **Constant Multipliers**
all with
Automatic Dial and Keyboard Clearance
★ **Visible Multiplier Proof Dials**
★ **Split and Normal Product Dials**
★ **Instantaneous Multiplier Correction**

COMPLETELY AUTOMATIC DUAL DIVISION
provides
Selective Carriage Tabulation
★ **Automatic Decimal Point in Quotient**
Automatic Entry of Dividend
★ **Automatic Divisor Alignment**
Positive Quotients
Negative Quotients
★ **Constant Divisors**
Automatic Dial and Keyboard Clearance

★ **SINGLE CYCLE ADDITION AND SUBTRACTION**

★ *a few of the new features in the ultra-matic model* ST-W

★ **COMPLETELY AUTOMATIC DIVISION WITH AUTOMATIC DIVISOR ALIGNMENT**...A touch of the Dividing Keys automatically shifts the carriage until the left-hand figure of the Divisor on the Keyboard is directly under the left-hand figures in the Upper Dials. The instant this alignment takes place, the Completely Automatic Division starts.

★ **AUTOMATIC DECIMAL POINT IN DIVISION**...A Tabulator Key depressed for the number of decimal places required in a Quotient, automatically becomes the decimal point for the Quotient.

★ **CONSTANT DIVISORS**...Are locked on Keyboard with Individual Key Locks, and combined with Automatic Divisor Alignment, division with Constant Divisors is amazingly fast and easy.

★ **INSTANTANEOUS COMPLETELY AUTOMATIC MULTIPLICATION**...The Multiplier is entered and the Multiplying Key depressed during the time the Carriage is automatically shifting to the clearing and Multiplying position. The instant the Carriage reaches this position, the multiplication automatically starts.

★ **VISIBLE MULTIPLIER PROOF DIALS**...Easily read figures make these Dials one of the most important sections of the machine. By having a proof of Multiplier accuracy before a multiplication is made, an operator may use the Lower Dials for the accumulation of Multipliers or Products, as desired.

★ **CONSTANT MULTIPLIERS**...Positive Keyboard Lock of a Constant on either Keyboard permits the use of the smaller amount as the Multiplier, regardless of which amount is the Constant.

★ **SPLIT AND NORMAL PRODUCT DIALS**...For obtaining Rounded-Off Percentages, Expenses, etc., with accumulated Multipliers

★ **GRAND TOTALS**...Individual Extensions on Invoices, Inventories, Payrolls, etc., are automatically accumulated to Grand Totals.

★ **INSTANTANEOUS MULTIPLIER CORRECTION**...A touch of the Multiplier Correction Key instantaneously clears the Multiplier Dials and automatically returns the Carriage to the Multiplying position.

★ **SINGLE CYCLE ADDITION OR SUBTRACTION**...With the Add Key in the down position, only one amount is added, subtracted, or counted with each depression of the Plus or Minus Bar.

Friden GRAND TOTAL *performance*

IDEAL FOR

- **PAYROLL CALCULATIONS**
- **INVOICING**
- **INVENTORIES**
- **TAXES**
- **EXPENSE PRO-RATIONS and**
- **ALL WORK REQUIRING INDIVIDUAL EXTENSIONS WITH GRAND TOTALS**

Is unique in the fact that the transfer of the individual items to the Grand Total takes place as the operator copies the individual answers and sets the factors for the next problem.

Individual extensions are obtained in one set of Dials and automatically transfer to a second set of Dials. Percentage discounts of Grand Totals are obtained in the Upper Dials and negatively transferred, thereby subtracting the discount from the Grand Total already in the Dials.

If a tax is to be added to a Grand Total, it is computed in the Upper Dials and automatically added to the Grand Total.

ask for a demonstration

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KENNETH C. HEDEEN, District Manager
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Philadelphia 3, Pennsylvania
Telephone LOcust 7-1143

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